

# SUISUN MARSH LOCAL PROTECTION WORK PROGRAM

## SUISUN RESOURCE CONSERVATION DISTRICT LOCAL COMPONENT

Suisun Marsh

Marshes -- Ca -- Suisun marsh

Wetland conservation --

Ca -- Suisun marsh

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Submitted by SRCD  
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## SECTION I

### INTRODUCTION

#### A. BACKGROUND

In the late 1960's, the Directors of the Suisun Resource Conservation District ("SRCD") recognized the threat to the natural resources of the Suisun Marsh (the "Marsh") posed by the pressures of increasing urbanization in Solano County. Their first efforts to deal with this problem took the form of a conservation easement program which it proposed in 1970 to landowners on the periphery of the Marsh -- now identified as the Primary Management Area ("PMA"). After three years of effort, it was evident that this approach would not be successful because:

1. the SRCD was unable to offer sufficient incentives to interest the landowners involved in participating; and
2. the concept did not recognize the necessity for a buffer zone around the PMA.

Accordingly, in 1974, the SRCD sponsored legislation which was ultimately enacted as SB 1981. This act defined a buffer zone around the PMA and precluded any development within it until a long-range protection plan could be developed. The long-range plan was embodied in AB 1717 which was enacted in 1977.

#### B. AREA-WIDE DESCRIPTION.

The Suisun Marsh is an 84,000 acre brackish water marsh located in Solano County immediately to the west of the Sacramento-San Joaquin Delta. It is the largest marsh of this type in the United States and comprises almost one-sixth of the total area of Solano County. The Marsh is a principal wintering area for waterfowl of the Pacific Flyway and represents over 10% of the total remaining natural wetlands in California.

#### C. STATEMENT OF WORK .

The Suisun Marsh Preservation Act of 1977 requires the SRCD to prepare a management program for the PMA. The work program presented in the following sections has been prepared in response to this mandate.

## SECTION II

### IDENTIFICATION OF MARSH PLANNING ISSUES

#### A. JURISDICTIONAL DESCRIPTION.

1. General. SRCD was established in 1963 in conformance with the provisions of Division 9 of the California Public Resources Code. Accordingly, its jurisdictional authority includes all powers provided by that Division. The extent of its geographic jurisdiction is shown on Exhibit A.
2. Special. The Suisun Marsh Protection Act of 1977 and the Suisun Marsh Protection Plan as adopted by the Legislature specifically provided the SRCD with additional jurisdictional authority within the PMA.

#### B. PROVISION AND POLICY GROUP EVALUATION.

Under the provisions of AB 1717, the San Francisco Bay Conservation and Development Commission ("BCDC") has been given primary state responsibility for the implementation of the protection plan. In addition, the bill includes provisions relating to the local responsibility of the SRCD over water management practices in the Marsh.

The component of the local protection program prepared by the SRCD is to be submitted directly to BCDC not later than January 1, 1980. The component is to include a water management program for the PMA, and shall specify all necessary development related to such management. The component is to address the following concerns:

##### 1. Wildlife Habitat Management and Preservation.

###### (a) Preservation Act Provisions.

- i) "9962. The district shall have primary local responsibility for regulating and improving water management practices on privately owned lands within the primary management area of the Suisun Marsh in conformity with Division 19 (commencing with Section 29000) and the Suisun Marsh Protection Plan. To carry out this responsibility, the district shall have the following powers in addition to those conferred on the district by this division:



(a) The district shall issue regulations requiring compliance with any water management plan or program for privately owned lands within the primary management area if such plan or program has been prepared by the district and approved and certified by the San Francisco Bay Conservation and Development Commission as a component of the local protection program required by Chapter 6 (commencing with Section 29500) of Division 19. Violation of any such regulation by any person is a misdemeanor.

(b) In addition to any other assessment authorized by this division, within an improvement district within the district, the board shall levy a separate assessment in an amount equal to the annual costs of normal operations and maintenance, if any, within the improvement district. Except as expressly provided in Section 9964, any such assessment shall otherwise be established, levied, and apportioned in accordance with the provisions of Chapter 10 (beginning with Section 9801) of this division."

- ii) "29002. The Legislature hereby finds and declares that the Suisun Marsh, consisting of approximately 55,000 acres of marshland and 30,000 acres of bays and sloughs, and comprising almost 10 percent of the remaining natural wetlands in California, plays an important role in providing wintering habitat for waterfowl of the Pacific Flyway; that during years of drought the area becomes particularly important to waterfowl by virtue of its large expanse of aquatic habitat and the scarcity of such habitat elsewhere; that the area provides critical habitat for other wildlife forms, including such endangered, rare or unique species as the peregrine falcon, white-tailed kite, golden eagle, California clapper rail, black rail, salt-marsh harvest mouse, and Suisun shrew; that the existence of this wide variety of wildlife is due to the relatively large expanse of unbroken native habitat and the diversity of vegetation and aquatic conditions that prevail in the marsh; that man is an integral part of the present marsh ecosystem and, to a significant extent, exercises control over the widespread presence of water and the abundant source of waterfowl foods; that the Suisun Marsh represents a unique and irreplaceable resource to the people of the state and nation; that future residential, commercial, and industrial developments could adversely affect the wildlife value of the area; and that it is the policy of the state to preserve and protect resources of this nature for the enjoyment of the current and succeeding generations."



iii) "29003. The Legislature further finds and declares that, in order to preserve the integrity and assure continued wildlife use of the Suisun Marsh, including the preservation of its waterfowl-carrying capacity and retention of the diversity of its flora and fauna, there is a need for all of the following:

(a) Provisions for establishment and maintenance of adequate water quality.

(b) Improvement of present water management practices, including drainage and other water control facilities within the Suisun Marsh.

(c) Establishment of criteria for the production of valuable waterfowl food plants.

(d) Provisions for future supplemental water supplies and related facilities to assure that adequate water quality will be achieved within the wetland areas.

(e) Development and implementation of plans and policies to protect the marsh from degradation by excessive human use.

(f) Definition and establishment of a buffer area consisting of upland areas that have high wildlife values themselves and also contribute to the integrity and continued wildlife use of the wetlands within the marsh."

iv) "29401. (d) A management program prepared by the Suisun Resource Conservation District designed to preserve, protect and enhance the plant and wildlife communities within the primary management area of the marsh, including, but not limited to, enforceable standards for diking, flooding, draining, filling and dredging of sloughs, managed wetlands and marshes."

(b) Protection Plan Policies:

i) "Environment - The diversity of habitats in the Suisun Marsh and surrounding upland areas should be preserved and enhanced wherever possible to maintain the unique wildlife resource."

"The Marsh waterways, managed wetlands, tidal marshes, seasonal marshes and lowland grasslands are critical habitats for marsh-related wildlife and are essential to the integrity of the Suisun Marsh. Therefore, these habitats deserve special protection."



"The eucalyptus groves in and around the Marsh, particularly those on Joice and Grizzly Islands, should not be disturbed."

- ii) "Land Use and Marsh Management - The managed wetlands, tidal marshes, lowland grasslands and seasonal marshes should be included in the PMA. Within the PMA existing uses should continue and both land and water areas should be protected and managed to enhance the quality and diversity of the habitats."

"The tidal marshes in the PMA should be preserved. Practices recommended by the Solano County Mosquito Abatement District to control mosquitoes, including ditching, drainage, pesticide application, burning, and the use of mosquitofish, should be conducted only where absolutely necessary. Because of potential adverse environmental impacts, pesticide application and burning for mosquito control should be applied only as a last resort. Efforts toward biological control of mosquitoes should be intensified."

"The water management schedule developed by the U.S.D.A. Soil Conservation Service and the California Department of Fish and Game and ratified by the Solano County Mosquito Abatement District should be used to the maximum extent possible in the managed wetlands. This schedule provides the most desirable habitat for waterfowl as well as many other types of marsh wildlife, and will also result in good mosquito control if properly managed."

"In order to improve the efficiency of water control management in the Marsh, the SRCD should be empowered to develop and enforce regulations establishing sound water management practices on all privately-owned managed wetlands within the PMA."

"The SRCD should be empowered to improve and maintain exterior levee systems as well as other water control facilities on the privately-owned managed wetlands within the PMA."

"Burning in the PMA is a valuable management tool. However, it should be kept to a minimum to prevent uncontrolled fires which may destroy beneficial plant species and damage peat levees, and to minimize air pollution."

"Permanent ponding, which provides only marginal wildlife benefits should be practiced only in the following situations: (a) in deep ponds that are difficult to drain and manage as seasonally flooded marshes; (b) in limited shallow areas where habitat diversity is desired; (c) in areas of high salinity concentrations. To control mosquitoes, the water level in permanent ponds should be kept constant, and the water should be circulated."

"Where feasible, historic marshes should be returned to wetland status, either as tidal marshes or managed wetlands. If, in the future, some of the managed wetlands are no longer needed for waterfowl hunting, they should also be restored as tidal marshes. Sound practices consistent with Marsh preservation recommended by the Solano County Mosquito Abatement District to control mosquitoes should be followed during and after marsh restoration."

"State and Federal agencies and the Solano County Mosquito Abatement District should continue and expand their research efforts on marsh management with the objective of improving wildlife habitat, preserving rare and endangered species and controlling mosquitoes. These agencies and the SRCD should periodically conduct joint reviews of marsh management programs to ensure that they are compatible with one another and consistent with the policies of the Suisun Marsh Protection Plan."

- (c) Local Policies and Existing Conditions - Since 1964, the SRCD has operated under a Memorandum of Understanding with the United States Soil Conservation Service ("SCS") and California Department of Fish and Game ("DF&G"). Under the terms of this agreement, these two agencies have provided technical assistance to SRCD cooperators in preparing land and water management plans.



Within the PMA, the SRCD has identified individual landownerships. An ownership is defined as one or more contiguous assessor's parcels in a single ownership. At the present time, 127 of the 183 ownerships have established "cooperator" status by signing a "Cooperator Agreement" with the SRCD (Exhibit B). This action is entirely voluntary on the part of the landowner. By becoming a cooperator, the landowner is entitled to receive technical assistance from SCS and DF&G in preparing a land and water management plan for his property. The purpose of the plan is to spell out facilities and procedures necessary to optimize the value of the property as waterfowl habitat. Because of SCS and DF&G manpower limitations, only 76 of the cooperators presently have management plans. After development of a plan, the landowner, at his option, may submit it to the SRCD for acceptance and certification. Certification by the SRCD entitles the landowner, if he decides to implement the plan, to apply for federal financial assistance in carrying out the provisions of the plan.

At the present time, there is no overall management plan for the PMA.

Plate 12 of the SCS's 1975 "Suisun Marsh Study" (page 84) identifies the various management practices utilized within the PMA in 1974. No more up-to-date information is currently available.

Until the passage of AB 1717, the SRCD had no effective regulatory authority. Accordingly, allowable land uses in virtually all of the PMA have been determined by Solano County zoning ordinances. In limited areas, Suisun City and Fairfield zoning ordinances have been applicable. In addition, the Bay Conservation and Development Commission ("BCDC"), the Corps of Engineers ("C/E"), the State Lands Commission ("SLC"), and DF&G have exercised permit authority within the scope of their jurisdictions. In 1977, the SRCD obtained blanket permits covering maintenance work on water management facilities within the PMA from BCDC and C/E and has requested a similar type of permit from SLC. In general, all of these jurisdictions contemplate maintenance of existing wetlands usage for the lands within the PMA.

- (d) Summary - Issues and Conflicts - Due to their voluntary nature and limited scope, the SRCD's pre-AB 1717 programs and plans are inadequate to carry out the policies and objectives of the Act and the Plan with respect to the PMA. This situation was recognized by the Act and

additional authority was given to the SRCD. Unfortunately, the language of the Act is not clear in the following areas:

- i) What should be the objectives and scope of the individual ownership management plans?
- ii) What happens if the owner of an individual ownership and the SRCD, DF&G and SCS cannot agree on what constitutes a mutually acceptable management plan?
- iii) What kind of a timetable should be required for implementation of improvements identified by the individual management plans?
- iv) Who pays for improvements called for by the individual ownership management plans?
- v) What authority or responsibility does the SRCD have to implement the provisions of either the overall management plan or the individual ownership plans if the local landowner does not comply with his plan?
- vi) What source of operating funds is available to the SRCD if the landowners refuse to form an improvement district and/or accept an assessment?
- vii) As a state-mandated program, to what extent does Section 15 of AB 1717 provide state funding for on-going expenses of the SRCD?
- viii) Resolution of what SRCD actions are required under CEQA?

In addition, the following tasks must be performed:

- ix) A water management plan must be prepared for each individual private landownership within the PMA which does not already have a satisfactory one.
- x) An overall habitat management program must be developed for the PMA by the SRCD in cooperation with the SCS, DF&G and SCMD.
- xi) Regulations - The SRCD must develop regulations covering the management of privately-owned property within the PMA to assure that the goals of optimizing wildlife values are attained.
- xii) Enforceable Standards - The SRCD must develop such standards with respect to levees, ditches and water management structures on private lands within the PMA.



## 2. Agriculture.

- (a) Preservation Act Provisions - Not applicable to the SRCD component.
- (b) Protection Plan Policies - "Agriculture within the PMA should be limited to activities compatible with, or intended for, the maintenance or improvement of wildlife habitat. These include extensive agricultural uses such as grain production and grazing. Intensive agricultural activities, involving removal or persistent plowing of natural vegetation and maintenance of fallow land during part of the year should not be permitted. Grain production should be confined to the Grizzly Island Wildlife Area and relatively small, well-suited areas of some of the large duck clubs. Grazing should be used to control vegetation on duck clubs where plant cover is sub-optimum for waterfowl use and should be discouraged on those clubs where there is already a good mixture of preferred waterfowl food plants. Grazing pressures should not exceed sound range management practices."
- (c) Local Policies and Existing Conditions - The SRCD's historic and current policy requires that management plans submitted for certification by agricultural landowners follow best management soil and erosion control practices.
- (d) Summary - Issues and Conflicts -
  - i) The present land use on certain private ownerships within the PMA is presently agricultural. In accordance with the provisions of the legislation and the plan, land use plans for these ownerships must be prepared which will be oriented towards the existing primary use with wildlife management objectives incorporated as a secondary objective. It is estimated that no more than 10 PMA ownerships fall into this category.
  - ii) Recent development of a strain of salt-tolerant barley which would be a highly desirable waterfowl food plant may make it advisable to reword the third sentence of Policy 2 of the Protection Plan's "Land Use and Marsh Management" element.

3. Water Quality. Not applicable to the SRCD component.

4. Natural Gas. Not applicable to the SRCD component.

5. Dredging, Filling and Diking.

(a) Preservation Act Provisions:

"29003 (b) Improvement of present water management practices, including drainage and other water control facilities within the Suisun Marsh."

"29401 (d) A management program prepared by the Suisun Resource Conservation District designed to preserve, protect, and enhance the plant and wildlife communities within the primary management area of the marsh, including, but not limited to, enforceable standards for diking, flooding, draining, filling, and dredging of sloughs, managed wetlands and marshes."

(b) Protection Plan Policies - None directly identified.

(c) Local Policies and Existing Conditions - Current SRCD policy is to operate in accordance with the provisions of the blanket permits covering maintenance work which have been issued by BCDC and the C/F.

(d) Summary - Issues and Conflicts -

- i) Resolution of the question of which agency is to prepare the enforceable standards for diking, flooding, draining, filling and dredging of sloughs, managed wetlands and marshes since this requirement is common to the County and the SRCD and portions of it are common to the three Reclamation Districts.
- ii) Both the individual ownership plans and the overall management plan which the SRCD must develop will contemplate dredging and diking activities and may, in certain instances, also involve filling in order to optimize wildlife values. Accordingly, the individual ownership plans must identify site specific activities of this nature and the overall plan must establish general guidelines.
- iii) The maintenance of "bay front" levees poses a special problem due to the intensity of the wave action in that area. The cost of proper maintenance is rapidly escalating and may already exceed the ability of the landowner directly involved to pay.

6. Utilities, Facilities and Transport. Not applicable to the SRCD component.

7. Recreation and Marsh Access. Not applicable to the SRCD component.

8. Water Management.

(a) Preservation Act Provisions -

i) "9962. The district shall have primary local responsibility for regulating and improving water management practices on privately owned lands within the primary management area of the Suisun Marsh in conformity with Division 19 (commencing with Section 29000) and the Suisun Marsh Protection Plan. To carry out this responsibility, the district shall have the following powers in addition to those conferred on the district by this division:

(a) The district shall issue regulations requiring compliance with any water management plan or program for privately owned lands within the primary management area if such plan or program has been prepared by the district and approved and certified by the San Francisco Bay Conservation and Development Commission as a component of the local protection program required by Chapter 6 (commencing with Section 29500) of Division 19. Violation of any such regulation by any person is a misdemeanor."

ii) "29003 (b). Improvement of present water management practices, including drainage and other water control facilities within the Suisun Marsh."

iii) "29401 (d). A management program prepared by the Suisun Resource Conservation District designed to preserve, protect, and enhance the plant and wildlife communities within the primary management area of the marsh, including, but not limited to, enforceable standards for diking, flooding, draining, filling, and dredging of sloughs, managed wetlands, and marshes."

iv) "29412.5. Notwithstanding Sections 29411 and 29412, the component of the local protection program prepared by the Suisun Resource Conservation District shall be submitted directly to the commission not later than January 1, 1979. Such component shall include a water management program for each managed wetland in private ownership within the primary



management area and shall specify all necessary development related to such management. Such component shall be processed by the commission pursuant to Sections 29413, 29414, 29415, and 29416 with the remainder of the local protection program submitted by the county."

(b) Protection Plan Policies -

"The water management schedule developed by the U.S.D.A. Soil Conservation Service and the DF&G and ratified by the Solano County Mosquito Abatement District should be used to the maximum extent possible in the managed wetlands. This schedule provides the most desirable habitat for waterfowl as well as many other types of marsh wildlife, and will also result in good mosquito control if properly managed."

"In order to improve the efficiency of water control management in the Marsh, the SRCD should be empowered to develop and enforce regulations establishing sound water management practices on all privately-owned managed wetlands within the PMA."

"The SRCD should be empowered to improve and maintain exterior levee systems as well as other water control facilities on the privately-owned managed wetlands within the PMA."

(c) Local Policies and Existing Conditions - See B.1.(c).

(d) Summary - Issues and Conflicts -

- i) Each individual ownership management plan developed by the SCS must contain a water management component. The component shall include recommended sizes and locations of water inlet and outlet structures; recommended locations and sizes of water distribution and drainage facilities; and a recommended flooding, circulation and drainage schedule. To the extent possible, these plans shall be based upon the anticipated overall water delivery plan which is being developed by the 4-Agency Suisun Marsh Technical Committee.
- ii) The overall management plan to be prepared by the SRCD shall include the general vegetative management objectives which the water management plan seeks to achieve. To the extent possible, it shall also reflect any changes in historical water delivery and distribution systems contemplated by the 4-Agency Suisun Marsh Technical Committee. In addition, any new water

quality standards adopted by the State Water Resources Control Board shall be included. The SRCD is currently negotiating a contract with the Department of Water Resources ("DWR") covering the future water supply for the Marsh. To the extent that they can be determined and are applicable, the provisions of any such contract shall be included in the overall management plan. Inadequate management of off-premise joint use water facilities creates problems for landowners in certain areas of the Marsh. Finally, it is anticipated that legislation will be introduced in Congress authorizing the Central Valley Project to provide water to the Marsh. To the extent the provisions of any such legislation are applicable to the overall management plan, they shall be included.

9. Visual Characteristics. Not applicable to the SRCD component.
10. Water-Related Industry. Not applicable to the SRCD component.

#### SUMMARY OF KEY ISSUES.

##### 1. Wildlife Habitat Management and Preservation.

Due to their voluntary nature and limited scope, the SRCD's pre-AB 1717 programs and plans are inadequate to carry out the policies and objectives of the Act and the Plan with respect to the PMA. This situation was recognized by the Act and additional authority was given to the SRCD. Unfortunately, the language of the Act is not clear in the following areas:

- (a) What should be the objectives and scope of the individual ownership management plans?
- (b) What happens if the owner of an individual ownership and the SRCD, DF&G and SCS cannot agree on what constitutes a mutually acceptable management plan?
- (c) What kind of a timetable should be required for implementation of improvements identified by the individual management plans?
- (d) Who pays for improvements called for by the individual ownership management plans?
- (e) What authority or responsibility does the SRCD have to implement the provisions of either the overall management plan or the individual ownership plans if the local landowner does not comply with his plan?

- (f) What source of operating funds is available to the SRCD if the landowners refuse to form an improvement district and/or accept an assessment?
- (g) As a state-mandated program, to what extent does Section 15 of AB 1717 provide state funding for ongoing expenses of the SRCD?
- (h) Resolution of what SRCD actions are required under CEQA?

In addition, the following tasks must be performed:

- (i) A water management plan must be prepared for each individual private landownership within the PMA which does not already have a satisfactory one.
- (j) An overall habitat management program must be developed for the PMA by the SRCD in cooperation with the SCS, DF&G and SCMAD.
- (k) Regulations - The SRCD must develop regulations covering the management of privately-owned property within the PMA to assure that the goals of optimizing wildlife values are attained.
- (l) Enforceable Standards - The SRCD must develop such standards with respect to levees, ditches and water management structures on private lands within the PMA.

## 2. Agriculture.

- (a) The present land use on certain private ownerships within the PMA is presently agricultural. In accordance with the provisions of the legislation and the plan, land use plans for these ownerships must be prepared which will be oriented towards the existing primary use with wildlife management objectives incorporated as a secondary objective. It is estimated that no more than 10 PMA ownerships fall into this category.
- (b) Recent development of a strain of salt-tolerant barley which would be a highly desirable waterfowl food plant may make it advisable to reword the third sentence of Policy 2 of the Protection Plan's "Land Use and Marsh Management" element.

## 3. Water Quality. Not applicable to the SRCD component.

## 4. Natural Gas. Not applicable to the SRCD component.



5. Dredging, Filling and Diking.

- (a) Resolution of the question of which agency is to prepare the enforceable standards for diking, flooding, draining, filling and dredging of sloughs, managed wetlands and marshes since this requirement is common to the County and the SRCD and portions of it are common to the three Reclamation Districts.
- (b) Both the individual ownership plans and the overall management plan which the SRCD must develop will contemplate dredging and diking activities and may, in certain instances, also involve filling in order to optimize wildlife values. Accordingly, the individual ownership plans must identify site specific activities of this nature and the overall plan must establish general guidelines.
- (c) The maintenance of "bay front" levees poses a special problem due to the intensity of the wave action in that area. The cost of proper maintenance is rapidly escalating and may already exceed the ability of the landowner directly involved to pay.

6. Utilities, Facilities and Transport. Not applicable to the SRCD component.

7. Recreation and Marsh Access. Not applicable to the SRCD component.

8. Water Management.

- (a) Each individual ownership management plan developed by the SCS must contain a water management component. The component shall include recommended sizes and locations of water inlet and outlet structures; recommended locations and sizes of water distribution and drainage facilities; and a recommended flooding, circulation and drainage schedule. To the extent possible, these plans shall be based upon the anticipated overall water delivery plan which is being developed by the 4-Agency Suisun Marsh Technical Committee.
- (b) The overall management plan to be prepared by the SRCD shall include the general vegetative management objectives which the water management plan seeks to achieve. To the extent possible, it shall also reflect any changes in historical water delivery and distribution systems contemplated by the 4-Agency Suisun Marsh Technical Committee. In addition, any new water quality standards adopted by the State Water Resources Control Board shall be included. The SRCD is currently negotiating a contract with DWR covering the future

water supply for the Marsh. To the extent that they can be determined and are applicable, the provisions of any such contract shall be included in the overall management plan. Inadequate management of off-premise joint use water facilities creates problems for landowners in certain areas of the Marsh. Finally, it is anticipated that legislation will be introduced in Congress authorizing the Central Valley Project to provide water to the Marsh. To the extent the provisions of any such legislation are applicable to the overall management plan, they shall be included.

9. Visual Characteristics. Not applicable to the SRCD component.
  10. Water-Related Industry. Not applicable to the SRCD component.
- PROVISIONS AND POLICY GROUP EVALUATION CHECKLIST. See Exhibit C.



## SECTION III

### DESCRIPTION OF MAJOR WORK TASKS

#### ADMINISTRATIVE RESPONSIBILITIES.

1. Major Tasks. To obtain the necessary technical competence and, because of in-house manpower constraints, the SRCD plans to contract with:
  - (a) the SCS for preparation of the individual ownership management plans; and
  - (b) Chapco to function as program manager to perform all other tasks and to prepare all other documents other than the Marsh Management Manual and any environmental documents.

During preparation of the individual ownership plans, the SRCD will consult with and supervise the activities of SCS.

During preparation of all other documents and performance of all other tasks, SRCD will consult with and supervise Chapco.

2. Products. The efficient and timely production of the SRCD component of the Local Protection Plan ("LPP").
3. Estimated Time for Completion.

|                 |           |
|-----------------|-----------|
| Program Manager | - 192 hrs |
| Accountant      | - 50 hrs  |
| Secretarial     | - 96 hrs  |

4. Estimated Costs.

|                 |                     |   |                 |
|-----------------|---------------------|---|-----------------|
| Program Manager | - 192 hrs @ \$25/hr | = | \$ 4,800        |
| Accountant      | - 50 hrs @ \$ 7/hr  | = | 350             |
| Secretarial     | - 96 hrs @ \$ 6/hr  | = | 576             |
| Total           |                     |   | <u>\$ 5,726</u> |

#### LOCAL PROTECTION PROGRAM COORDINATION.

1. Major Tasks. During the preparation of the SRCD component of the LPP, SRCD will:
  - (a) coordinate its activities with Solano County, BCDC, Solano County Mosquito Abatement District ("SCMAD"), DF&G and other appropriate agencies;

- (b) review the output of the above agencies as it relates to the LPP;
  - (c) participate in meetings of the LPP Technical Advisory Committee; and
  - (d) participate in meetings between agencies to resolve conflicts.
2. Products. A well coordinated and integrated LPP.
  3. Estimated Time for Completion.

|                 |           |
|-----------------|-----------|
| Program Manager | - 200 hrs |
| Secretarial     | - 50 hrs  |

4. Estimated Costs.

|                 |                     |   |                 |
|-----------------|---------------------|---|-----------------|
| Program Manager | - 200 hrs @ \$25/hr | = | \$ 5,000        |
| Secretarial     | - 50 hrs @ \$ 6/hr  | = | 300             |
| Total           |                     |   | <u>\$ 5,300</u> |

DEVELOPMENT OF WORK PROGRAM.

1. Major Tasks. Preparation of the SRCD component will involve:
  - (a) preparation of an Issue Identification Paper and submission to BCDC;
  - (b) preparation of a Work Program and submission to BCDC; and
  - (c) obtaining funding necessary to carry out the Work Program from BCDC.
2. Products. This effort will produce the necessary Issue Identification Paper Work, Program and funding.
3. Estimated Time for Completion.

|                    |           |
|--------------------|-----------|
| Soil Cons. Service | - 124 hrs |
| Program Manager    | - 157 hrs |
| Secretarial        | - 121 hrs |
4. Estimated Costs.

|                    |                        |   |                    |
|--------------------|------------------------|---|--------------------|
| Soil Cons. Service | - 124 hrs @ \$13.80/hr | = | \$ 1,711.20        |
| Program Manager    | - 157 hrs @ \$25/hr    | = | 3,925.00           |
| Secretarial        | - 121 hrs @ \$ 6/hr    | = | 726.00             |
| Total              |                        |   | <u>\$ 6,362.20</u> |



## RESOLUTION OF MARSH PROVISION AND POLICY CONFLICTS.

### 1. Wildlife Habitat Management and Preservation.

(a) Issue Summary. Due to their voluntary nature and limited scope, the SRCD's pre-AB 1717 programs and plans are inadequate to carry out the policies and objectives of the Act and the Plan with respect to the PMA. This situation was recognized by the Act and additional authority was given to the SRCD. Unfortunately, the language of the Act is not clear in the following areas:

- i) What should be the objectives and scope of the individual ownership management plans?
- ii) What happens if the owner of an individual ownership and the SRCD, DF&G and SCS cannot agree on what constitutes a mutually acceptable management plan?
- iii) What kind of timetable should be required for implementation of improvements identified by the individual management plans?
- iv) Who pays for improvements called for by the individual ownership management plans?
- v) What authority or responsibility does the SRCD have to implement the provisions of either the overall management plan or the individual ownership plans if the local landowner does not comply with his plan?
- vi) What source of operating funds is available to the SRCD if the landowner refuses to form an improvement district and/or accept an assessment?
- vii) As a state-mandated program, to what extent does Section 15 of AB 1717 provide state funding for on-going expenses of the SRCD?
- viii) Resolution of what SRCD actions are required under CEQA?

In addition, the following tasks must be performed:

- ix) A water management plan must be prepared for each individual private landownership within the PMA which does not already have a satisfactory one.
- x) An overall habitat management program must be developed for the PMA by the SRCD in cooperation with SCS, DF&G and SCMD.

- xi) Regulations - The SRCD must develop regulations covering the management of privately-owned property within the PMA to assure that the goals of optimizing wildlife values are attained.
- xii) Enforceable Standards - The SRCD must develop such standards with respect to levees, ditches and water management structures on private lands within the PMA.

(b) Major Tasks.

- i) In concert with BCDC, DF&G, SCMD and other appropriate agencies, SRCD will develop a statement of the objectives and scope of the individual private ownership management plans.
- ii) It is anticipated that, in certain instances, it may be difficult to devise a water management plan for an individual private ownership which is mutually satisfactory to all the parties concerned. Positive solutions to these problems will require a significant effort on the part of SRCD.
- iii) Development of a timetable for implementing the individual private ownership plans will require the mutual agreement of all parties involved. SRCD will undertake to obtain that agreement.
- iv) Individual private ownership water management plan implementation will require the expenditure of funds by private landowners for both capital improvements and increased operating and maintenance costs. SRCD will identify potential sources of such funds.
- v) SRCD will obtain appropriate legal counsel as to the extent of its authority under AB 1717 and other applicable statutes.
- vi) SRCD will identify alternative local sources of operating funds available to it.
- vii) SRCD will obtain appropriate legal counsel as to the extent to which Section 15 of AB 1717 provides state funding for the ongoing expenses of the SRCD.
- viii) After consultation with other appropriate agencies, SRCD will identify what actions are required of it under CEQA in preparation of its component of the LPP.

ix) A management plan will be prepared for each individual private landownership within the PMA which does not already have a satisfactory one. An "individual ownership" means a separately-owned parcel of land. Contiguous parcels owned by the same legal entity comprise a single individual ownership. New plans will be developed for 106 ownerships which do not presently have them. Nineteen (19) plans will be developed for ownerships whose present plan is obsolete or incomplete. The objective of these plans will be to obtain an optimum level of diversified wildlife habitat on each ownership while taking into account the physical constraints present, such as topography, soil, location and quality of water supply, etc. Each plan will include:

- a conservation plan map and legend
- a soils map and interpretive data
- a topography map - source USBR
- a summary of gates, including location and description
- an analysis of flushing capability and structural needs to carry out desired water management program
- projected slough and pond salinity
- a report on the condition of levees and ditches
- a vegetative survey - source: Suisun Marsh Study, CDF&C 73
- a vegetative survey - determine percentage of desirable plants
- a water management schedule - applicable schedules to be a result of analyzing all of the above points
- the needed decisions and development necessary to carry out such management.

In order to take advantage of available technical expertise and minimize cost, the SRCD will contract with the SCS to develop these plans under the direction of the SRCD and in cooperation with DF&G and SCMAD.

x) An overall habitat management program will be developed for the PMA by the SRCD in cooperation with the SCS, DF&G and SCMAD. This program will be based upon the consolidation and integration of the individual management plans into a comprehensive overall management plan. This program will have as its objective the optimization of the wildlife values of the PMA. Included in the management program will be the development by DF&G of a Marsh Management Manual for use by private landowners. It will contain information on water management, mosquito abatement and habitat management practices such as burning, disking, mowing, etc.



- xi) In conjunction with Solano County, DF&G and SCMD, SRCD will develop regulations covering habitat management on privately-owned property within the PMA to assure that the goals of optimizing wildlife values are attained.
- xii) In conjunction with SCS, DF&G, SCMD and Solano County, the SRCD will develop enforceable standards with respect to levees, ditches and water management structures on private lands within the PMA.

(c) Products.

- i) A statement of the intended objectives and scope of the individual private ownership water management plans.
- ii) Resolution of divergent views as to the suitability of specific individual private ownership water management plans.
- iii) A timetable for implementing individual private ownership water management plans.
- iv) Identification of funding alternatives for implementing individual private ownership water management plans.
- v) Determination of the extent of SRCD's regulatory authority under AB 1717.
- vi) Identification of potential operating fund sources available to SRCD from local sources.
- vii) Identification of potential operating fund sources available to SRCD for ongoing costs mandated by AB 1717.
- viii) Identification of SRCD actions required under CFCI in preparation of its component of the LPP.
- ix) An individual water management plan for each private ownership within the PMA.
- x) An overall management program for the PMA.
- xi) Regulations covering water management practices on private lands within the PMA.
- xii) Enforceable standards for diking, flooding, draining, filling and dredging on private lands within the PMA.

(d) Estimated Time for Completion.

i) III D 1 (c) i - Chapco

Program Manager - 8 hours  
Secretarial - 1 hour

ii) III D 1 (c) ii - Chapco

Program Manager - 80 hours  
Secretarial - 8 hours

iii) III D 1 (c) iii - Chapco

Program Manager - 24 hours  
Secretarial - 2 hours

iv) III D 1 (c) iv - Chapco

Program Manager - 80 hours  
Secretarial - 8 hours

v) III D 1 (c) v - Chapco

Program Manager - 16 hours  
Secretarial - 4 hours

vi) III D 1 (c) vi - Chapco

Program Manager - 8 hours  
Secretarial - 2 hours

vii) III D 1 (c) vii - Chapco

Program Manager - 24 hours  
Secretarial - 8 hours

viii) III D 1 (c) viii - Chapco

Program Manager - 4 hours  
Secretarial - 1 hour

ix) III D 1 (c) ix - SCS

|  |     |
|--|-----|
| Area Conservationist (Borchard) GS-13            | 42  |
| State Administrative Officer<br>(Rexroat) GS-13  | 14  |
| State Resource Conservationist<br>(Hansen) GS-13 | 10  |
| State Biologist (Miller) GS-12                   | 16  |
| District Conservationist (Norris) GS-11          | 168 |
| Area Biologist (Schultze) GS-11                  | 202 |

|   |      |
|---|------|
| Area Agronomist (Cohen) GS-11           | 8    |
| Area Range Specialist (Swanson) GS-11   | 8    |
| Field Office Engineer (Cherron) GS-9    | 40   |
| Soil Conservationist GS-9               | 1609 |
| Soil Conservationist GS-7               | 1733 |
| 2 Conservation/Biology Technicians GS-5 | 3466 |
| Clerk Typist GS-3 \$4.00                | 1515 |
| Total                                   | 8231 |

x) III D 1 (c) x  
Overall PMA management plan - Chapco

|                 |   |           |
|-----------------|---|-----------|
| Program Manager | - | 208 hours |
| Secretarial     | - | 208 hours |

xi) III D 1 (c) xi - Chapco

|                 |   |          |
|-----------------|---|----------|
| Program Manager | - | 40 hours |
| Secretarial     | - | 40 hours |

xii) III D 1 (c) xii - Chapco

|                 |   |          |
|-----------------|---|----------|
| Program Manager | - | 40 hours |
| Secretarial     | - | 40 hours |

(e) Estimated Costs.

i) III D 1 (c) i - Chapco

|                 |   |                 |   |    |        |
|-----------------|---|-----------------|---|----|--------|
| Program Manager | - | 8 hrs @ \$25/hr | = | \$ | 200    |
| Secretarial     | - | 1 hr @ \$ 6/hr  | = |    | 6      |
| Total           |   |                 |   |    | \$ 206 |

ii) III D 1 (c) ii - Chapco

|                 |   |                  |   |    |          |
|-----------------|---|------------------|---|----|----------|
| Program Manager | - | 80 hrs @ \$25/hr | = | \$ | 2,000    |
| Secretarial     | - | 8 hrs @ \$ 6/hr  | = |    | 48       |
| Total           |   |                  |   |    | \$ 2,048 |

iii) III D 1 (c) iii - Chapco

|                 |   |                  |   |    |        |
|-----------------|---|------------------|---|----|--------|
| Program Manager | - | 24 hrs @ \$25/hr | = | \$ | 600    |
| Secretarial     | - | 2 hrs @ \$ 6/hr  | = |    | 12     |
| Total           |   |                  |   |    | \$ 612 |

iv) III D 1 (c) iv - Chapco

|                 |   |                  |   |    |          |
|-----------------|---|------------------|---|----|----------|
| Program Manager | - | 80 hrs @ \$25/hr | = | \$ | 2,000    |
| Secretarial     | - | 8 hrs @ \$ 6/hr  | = |    | 48       |
| Total           |   |                  |   |    | \$ 2,048 |



v) III D 1 (c) v - Chapco

|                 |   |                  |   |    |        |
|-----------------|---|------------------|---|----|--------|
| Program Manager | - | 16 hrs @ \$25/hr | = | \$ | 400    |
| Secretarial     | - | 4 hrs @ \$ 6/hr  | = |    | 24     |
| Total           |   |                  |   |    | \$ 424 |

vi) III D 1 (c) vi - Chapco

|                 |   |                 |   |    |        |
|-----------------|---|-----------------|---|----|--------|
| Program Manager | - | 8 hrs @ \$25/hr | = | \$ | 200    |
| Secretarial     | - | 2 hrs @ \$ 6/hr | = |    | 12     |
| Total           |   |                 |   |    | \$ 212 |

vii) III D 1 (c) vii - Chapco

|                 |   |                  |   |    |        |
|-----------------|---|------------------|---|----|--------|
| Program Manager | - | 24 hrs @ \$25/hr | = | \$ | 600    |
| Secretarial     | - | 8 hrs @ \$ 6/hr  | = |    | 48     |
| Total           |   |                  |   |    | \$ 648 |

viii) III D 1 (c) viii - Chapco

|                 |   |                 |   |    |        |
|-----------------|---|-----------------|---|----|--------|
| Program Manager | - | 4 hrs @ \$25/hr | = | \$ | 100    |
| Secretarial     | - | 1 hr @ \$ 6/hr  | = |    | 6      |
| Total           |   |                 |   |    | \$ 106 |

ix) III D 1 (c) ix - SCS

|                    |   |                       |   |              |
|--------------------|---|-----------------------|---|--------------|
| Assorted personnel | - | 8831 hrs @ \$13.80/hr | = | \$121,867.80 |
| Equipment          |   |                       |   | 1,847.00     |
| Total              |   |                       |   | \$123,714.80 |

\*Cost of preparing individual private ownership water management plans as outlined in the Suism Marsh Duck Club Management Plans Project Analysis, for each managed wetland in private ownership within the Primary Management Area. Any additional material to be included in the plan is subject to re-negotiation.

This cost is for services over and above that which the Soil Conservation Service would be providing in the next year.

x) III D 1 (c) x - Chapco

|                 |   |                   |   |    |          |
|-----------------|---|-------------------|---|----|----------|
| Program Manager | - | 208 hrs @ \$25/hr | = | \$ | 5,200    |
| Secretarial     | - | 208 hrs @ \$ 6/hr | = |    | 1,248    |
| Total           |   |                   |   |    | \$ 6,448 |

xi) III D 1 (c) xi - Chapco

|                 |   |                  |   |          |
|-----------------|---|------------------|---|----------|
| Program Manager | - | 40 hrs @ \$25/hr | = | \$ 1,000 |
| Secretarial     | - | 40 hrs @ \$ 6/hr | = | 240      |
| Total           |   |                  |   | \$ 1,240 |

xii) III D 1 (c) xii - Chapco

|                 |   |                  |   |          |
|-----------------|---|------------------|---|----------|
| Program Manager | - | 40 hrs @ \$25/hr | = | \$ 1,000 |
| Secretarial     | - | 40 hrs @ \$ 6/hr | = | 240      |
| Total           |   |                  |   | \$ 1,240 |

2. Agriculture.

(a) Issue Summary.

- i) The present land use on certain private ownerships within the PMA is presently agricultural. In accordance with the provisions of the legislation and the plan, land use plans for these ownerships must be prepared which will be oriented towards the existing primary use with wildlife management objectives incorporated as a secondary objective. It is estimated that no more than 10 PMA ownerships fall into this category.
- ii) Recent development of a strain of salt-tolerant barley which would be a highly desirable waterfowl food plant may make it advisable to reword the third sentence of Policy 2 of the Protection Plan's "Land Use and Marsh Management" element.

(b) Major Tasks.

- i) III D 2 (a) i - included in III D 1 (b).
- ii) III D 2 (a) ii - devise new wording for the third sentence of Policy 2 of the Protection Plan's "Land Use and Marsh Management" element.

(c) Products.

- i) III D 2 (a) i - included in III D 1 (c).
- ii) III D 2 (a) ii - a revised version of Policy 2 of the Protection Plan's "Land Use and Marsh Management" element.

(d) Estimated Time for Completion.

i) III D 2 (c) i - included in III D 1 (c).

ii) III D 2 (c) ii - Chapco

Program Manager - 4 hours  
Secretarial - 1 hour

(e) Estimated Costs.

i) III D 2 (c) i - included in III D 1 (c).

ii) III D 2 (c) ii - Chapco

|                 |   |                 |   |       |        |
|-----------------|---|-----------------|---|-------|--------|
| Program Manager | - | 4 hrs @ \$25/hr | = | \$    | 100    |
| Secretarial     | - | 1 hr @ \$ 6/hr  | = |       | 6      |
|                 |   |                 |   | Total | \$ 106 |

3. Dredging, Diking and Filling.

(a) Issue Summary.

- i) Resolution of the question of which agency is to prepare the enforceable standards for diking, flooding, draining, filling and dredging of sloughs, managed wetlands and marshes since this requirement is common to the County and the SRCD and portions of it are common to the three Reclamation Districts.
- ii) Both the individual ownership plans and the overall management plan which the SRCD must develop will contemplate dredging and diking activities and may, in certain instances, also involve filling in order to optimize wildlife values. Accordingly, the individual ownership plans must identify site specific activities of this nature and the overall plan must establish general guidelines.
- iii) The maintenance of "bay front" levees in the PMA poses a special problem due to the intensity of the wave action in that area. The cost of proper maintenance is rapidly escalating and may already exceed the ability of the landowner directly involved to pay.

(b) Major Tasks.

i) III D 3 (a) i - included in III D 1 (b).



- ii) III D 3 (a) ii - included in III D 1 (b).
- iii) III D 3 (a) iii - identify possible programs which would assure the long-term integrity of the "bay front" levees in the PMA.

(c) Products.

- i) III D 3 (a) i - included in III D 1 (c).
- ii) III D 3 (a) ii - included in III D 1 (c).
- iii) III D 3 (a) iii - a proposed program which would assure the long-term integrity of the "bay front" levees in the PMA.

(d) Estimated Time of Completion.

- i) III D 3 (c) i - included in III D 1 (d).
- ii) III D 3 (c) ii - included in III D 1 (d).
- iii) III D 3 (c) iii - Chapco

|                 |   |          |
|-----------------|---|----------|
| Program Manager | - | 40 hours |
| Secretarial     | - | 40 hours |

(e) Estimated Costs.

- i) III D 3 (c) i - included in III D 1 (e).
- ii) III D 3 (c) ii - included in III D 1 (e).
- iii) III D 3 (c) iii - Chapco

|                 |   |                  |   |          |
|-----------------|---|------------------|---|----------|
| Program Manager | - | 40 hrs @ \$25/hr | = | \$ 1,000 |
| Secretarial     | - | 40 hrs @ \$ 6/hr | = | 240      |
| Total           |   |                  |   | \$ 1,240 |

4. Water Management.

(a) Issue Summary.

- i) Each individual ownership management plan developed by the SCS must contain a water management component. The component shall include recommended sizes and locations of water inlet and outlet structures; recommended locations and sizes of water distribution and drainage facilities; and a recommended flooding, circulation and drainage schedule. To

the extent possible, these plans shall be based upon the anticipated overall water delivery plan which is being developed by the 4-Agency Suisun Marsh Technical Committee.

- ii) The overall management plan to be prepared by the SRCD shall include the general vegetative management objectives which the water management plan seeks to achieve. To the extent possible, it shall also reflect any changes in historical water delivery and distribution systems contemplated by the 4-Agency Suisun Marsh Technical Committee. In addition, any new water quality standards adopted by the State Water Resources Control Board shall be included. The SRCD is currently negotiating a contract with the DWR covering the future water supply for the Marsh. To the extent that they can be determined and are applicable, the provisions of any such contract shall be included in the overall management plan. Inadequate management of off-premise joint use water facilities creates problems for landowners in certain areas of the Marsh. Finally, it is anticipated that legislation will be introduced in Congress authorizing the Central Valley Project to provide water to the Marsh. To the extent the provisions of any such legislation are applicable to the overall management plan, they shall be included.

(E) Major Tasks.

- i) Each individual ownership management plan developed by the SCS will contain a water management component. The component will include recommended sizes and locations of water inlet and outlet structures; recommended locations and sizes of water distribution and drainage facilities; and a recommended flooding, circulation and drainage schedule. To the extent possible, these plans will be based upon the anticipated overall water delivery plan which is being developed by the 4-Agency Suisun Marsh Technical Committee.
- ii) The overall management plan to be prepared by the SRCD will include the general vegetative management objectives which the water management plan seeks to achieve. To the extent possible, it will also reflect any changes in historical water delivery and distribution systems contemplated by the 4-Agency Suisun Marsh

Technical Committee. In addition, any new water quality standards adopted by the State Water Resources Control Board will be included. The SPCD is currently negotiating a contract with the DWP covering the future water supply for the Marsh. To the extent that they can be determined and are applicable, the provisions of any such contract will be included in the overall management plan. The overall management plan will contain recommendations to solve the problem of inadequate management of off-premise joint use water facilities. Finally, it is anticipated that legislation will be introduced in Congress authorizing the Central Valley Project to provide water to the Marsh. To the extent the provisions of any such legislation are applicable to the overall management plan, they will be included.

(c) Products. Included in III D1(c).

(d) Estimated Time for Completion. Included in III D1(d).

(e) Estimated Costs. Included in III D1(e).

#### PUBLIC PARTICIPATION.

1. Major Tasks. The SRCO will hold approximately 36 meetings with small groups of private landowners in the PM. The purpose of these meetings will be to explain the legislation and the LPP to these groups and to solicit their input in the formulation of the overall management plan.
2. Products. An informed and aware local public who have contributed to the development of the SRCO component.
3. Estimated Time for Completion.

|                 |           |
|-----------------|-----------|
| Program Manager | - 250 hrs |
| Secretarial     | - 250 hrs |

4. Estimated Costs.

|                 |                     |       |                 |
|-----------------|---------------------|-------|-----------------|
| Program Manager | - 250 hrs @ \$25/hr | =     | \$ 6,250        |
| Secretarial     | - 250 hrs @ \$ 6/hr | =     | 1,500           |
|                 |                     | Total | <u>\$ 7,750</u> |



## MAPPING.

1. Major Tasks. A topographic map of the PMA will be prepared showing each individual ownership. The ownerships will be numbered employing a grid system. A corresponding ownership roster will be prepared showing ownership numbers, assessor's parcel numbers, legal owners, duck club names, lessees and contacts.
2. Products. The information necessary to identify and contact local landowners.
3. Estimated Time for Completion.

|                 |   |         |
|-----------------|---|---------|
| Program Manager | - | 11 hrs. |
| Secretarial     | - | 151 hrs |

4. Estimated Costs.

|                 |   |                   |   |    |                 |
|-----------------|---|-------------------|---|----|-----------------|
| Program Manager | - | 11 hrs @ \$25/hr  | = | \$ | 275             |
| Secretarial     | - | 151 hrs @ \$ 6/hr | = |    | 906             |
| Total           |   |                   |   |    | <u>\$ 1,181</u> |

## PUBLIC HEARINGS AND ADOPTION.

1. Major Tasks. The SRCD will:
  - (a) participate in public hearings of other agencies related to the development of the LPP;
  - (b) hold a public hearing to obtain comments on its overall Marsh Management Plan; and
  - (c) adopt the Plan with any amendments determined necessary or desirable based upon the testimony at the public hearing and will submit it to ECDC.
2. Products. Optimized LPP and SRCD components, together with adoption of the SRCD component by the SRCD Board.
3. Estimated Time for Completion.

|                 |   |        |
|-----------------|---|--------|
| Program Manager | - | 40 hrs |
| Secretarial     | - | 10 hrs |

4. Estimated Costs.

|                 |   |                  |   |    |                 |
|-----------------|---|------------------|---|----|-----------------|
| Program Manager | - | 40 hrs @ \$25/hr | = | \$ | 1,000           |
| Secretarial     | - | 10 hrs @ \$ 6/hr | = |    | 60              |
| Total           |   |                  |   |    | <u>\$ 1,060</u> |

## IMPLEMENTATION.

### 1. Major Tasks. The SRCD will:

- (a) identify the actions necessary to create an improvement district within the SRCD and covering the PMA;
- (b) seek legal and legislative clarification of certain sections of AB 1717;
- (c) identify the additional authority necessary for it to carry out the activities mandated by AB 1717;
- (d) develop alternative budgets applicable to various levels of post-certification administrative activity; and
- (e) recommend a program to provide incentives to the private landowners to improve their management practices and partially compensate them for the added costs.

### 2. Products. An awareness by all interested parties of the additional steps which must be taken in order to effectively implement the SRCD component of the LPP.

### 3. Estimated Time for Completion. Included in III D 1 (d).

### 4. Estimated Costs. Included in III D 1 (e).

## SECTION IV

LOCAL PROTECTION PROGRAM TIMETABLE  
 SUISUN RESOURCE CONSERVATION DISTRICT COMPONENT

APPLICANT: SUISUN RESOURCE CONSERVATION DISTRICT

PERIOD COVERED: 1 JAN 78 - 31 DEC 79

| CATEGORY                                 | 1978 |     |     |     |     |     |     |     |     |     |     |     | 1979 |     |     |     |     |     |     |     |     |     |     |     |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| A. Administrative Responsibilities       |      |     |     |     |     |     | 1   |     |     |     |     |     | 1    | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| B. Local Protection Program Coordination | 1    |     |     |     |     |     |     |     |     |     |     |     | 2    | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| Develop Work Program                     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 1. Issue Identification Paper            | 1    |     |     |     |     | 3a  |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 2. Work Program                          |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 3. Funding                               |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| D. Resolution of Conflicts               |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 1. Individual Management Plans           |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 2. Overall Plan                          |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 3. Regulations                           |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 4. Standards                             |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| E. Public Participation                  |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| F. Mapping                               |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| G. Public Hearings and Adoption          |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |
| Implementation                           |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |





## SECTION IVB

LOCAL PROTECTION PROGRAM PRODUCT AND MILESTONE DESCRIPTION  
SUISUN RESOURCE CONSERVATION DISTRICT COMPONENT

| Category                                 | Mile-<br>stone       | Due<br>Date  | Description  | Milestone Accomplishments<br>Will Be Measured By                     |
|--|----------------------|--|--|--|
| A. Administrative Responsibilities       | 1                    | 11/1/78,<br>1/1/79<br>then monthly                   | Progress reports and requests for reimbursement  | Written report   |
| B. Local Protection Program Coordination | 2                    | 10/1/78,<br>1/1/79<br>then monthly                   | Progress reports and requests for reimbursement  | Written report   |
| C. Develop Work Program                  | 3a<br>3b<br>3c       | 6/1/78<br>10/1/78<br>10/1/78 &<br>1/1/79             | Issue Identification Paper<br>Work Program<br>Contracts for funding                            | Written report<br>Written report<br>Signed contracts                 |
| D. Resolution of Conflicts               | 4a<br>4b<br>4c<br>4d | 9/1/78 &<br>8/1/79<br>12/15/79<br>12/15/79<br>1/1/80 | Individual Management Plans<br>Overall Management Plan<br>Regulations<br>Enforceable Standards | Written report<br>Written report<br>Written report<br>Written report |
| E. Public Participation                  | 5                    | 8/1/79   | Meetings with landowners   | Holding meetings   |
| F. Mapping                               | 6                    | 6/1/78   | Roster of landowners within the PMA and ownership map  | Written report and topography map                                    |
| G. Public Hearings and Adoption          | 7                    | 12/31/79   | Public hearings and SRCD<br>SRCD Board action  | Public hearings and<br>SRCD Board action                             |
| H. Implementation                        | 8                    | 10/1/79  | Identification and recommendations concerning needed future actions                            | Written report   |

## SECTION V

### PROGRAM BUDGET

#### ADMINISTRATIVE RESPONSIBILITIES.

|                 |   |                   |   |             |
|-----------------|---|-------------------|---|-------------|
| Program Manager | - | 192 hrs @ \$25/hr | = | \$ 4,800.00 |
| Accounting      | - | 50 hrs @ \$ 7/hr  | = | 350.00      |
| Secretarial     | - | 96 hrs @ \$ 6/hr  | = | 576.00      |
|                 |   | Sub-Total         |   | \$ 5,726.00 |

\$ 5,726.00

#### LOCAL PROTECTION PROGRAM COORDINATION.

|                 |   |                   |   |             |
|-----------------|---|-------------------|---|-------------|
| Program Manager | - | 200 hrs @ \$25/hr | = | \$ 5,000.00 |
| Secretarial     | - | 50 hrs @ \$ 6/hr  | = | 300.00      |
|                 |   | Sub-Total         |   | \$ 5,300.00 |

\$ 5,300.00

#### DEVELOPMENT OF WORK PROGRAM.

|                 |   |                      |   |             |
|-----------------|---|----------------------|---|-------------|
| Soil Cons. Ser. | - | 124 hrs @ \$13.80/hr | = | \$ 1,711.20 |
| Program Manager | - | 157 hrs @ \$25/hr    | = | 3,925.00    |
| Secretarial     | - | 121 hrs @ \$ 6/hr    | = | 726.00      |
|                 |   | Sub-Total            |   | \$ 6,362.20 |

\$ 6,362.20

#### RESOLUTION OF MARSH PROVISIONS AND POLICY CONFLICTS.

|                    |   |                       |   |              |
|--------------------|---|-----------------------|---|--------------|
| Assorted SCS Staff | - | 8831 hrs @ \$13.80/hr | = | \$121,867.80 |
| Program Manager    | - | 576 hrs @ \$25/hr     | = | 14,400.00    |
| Secretarial        | - | 363 hrs @ \$ 6/hr     | = | 2,178.00     |
| Equipment          |   |                       | = | 1,847.00     |
|                    |   | Sub-Total             |   | \$140,292.80 |

\$140,292.80

#### PUBLIC PARTICIPATION.

|                 |   |                   |   |             |
|-----------------|---|-------------------|---|-------------|
| Program Manager | - | 250 hrs @ \$25/hr | = | \$ 6,250.00 |
| Secretarial     | - | 250 hrs @ \$ 6/hr | = | 1,500.00    |
|                 |   | Sub-Total         |   | \$ 7,750.00 |

\$ 7,750.00



MAPPING.

|                 |   |                   |   |    |               |
|-----------------|---|-------------------|---|----|---------------|
| Program Manager | - | 11 hrs @ \$25/hr  | = | \$ | 275.00        |
| Secretarial     | - | 151 hrs @ \$ 6/hr | = |    | <u>906.00</u> |
|                 |   | Sub-Total         |   | \$ | 1,181.00      |

\$ 1,181.00

PUBLIC HEARING AND ADOPTION.

|                 |   |                  |   |    |              |
|-----------------|---|------------------|---|----|--------------|
| Program Manager | - | 40 hrs @ \$25/hr | = | \$ | 1,000.00     |
| Secretarial     | - | 10 hrs @ \$ 6/hr | = |    | <u>60.00</u> |
|                 |   | Sub-Total        |   | \$ | 1,060.00     |

\$ 1,060.00

IMPLEMENTATION.

Included in D.

|            |                     |
|------------|---------------------|
| TOTAL COST | <u>\$167,672.00</u> |
|------------|---------------------|



# SUISUN RESOURCE CONSERVATION DISTRICT SOLANO COUNTY, CALIFORNIA

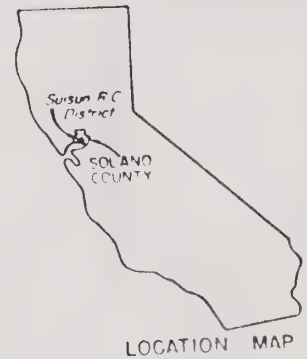
JANUARY 1973

2 MILES



LEGEND

Excluded Area



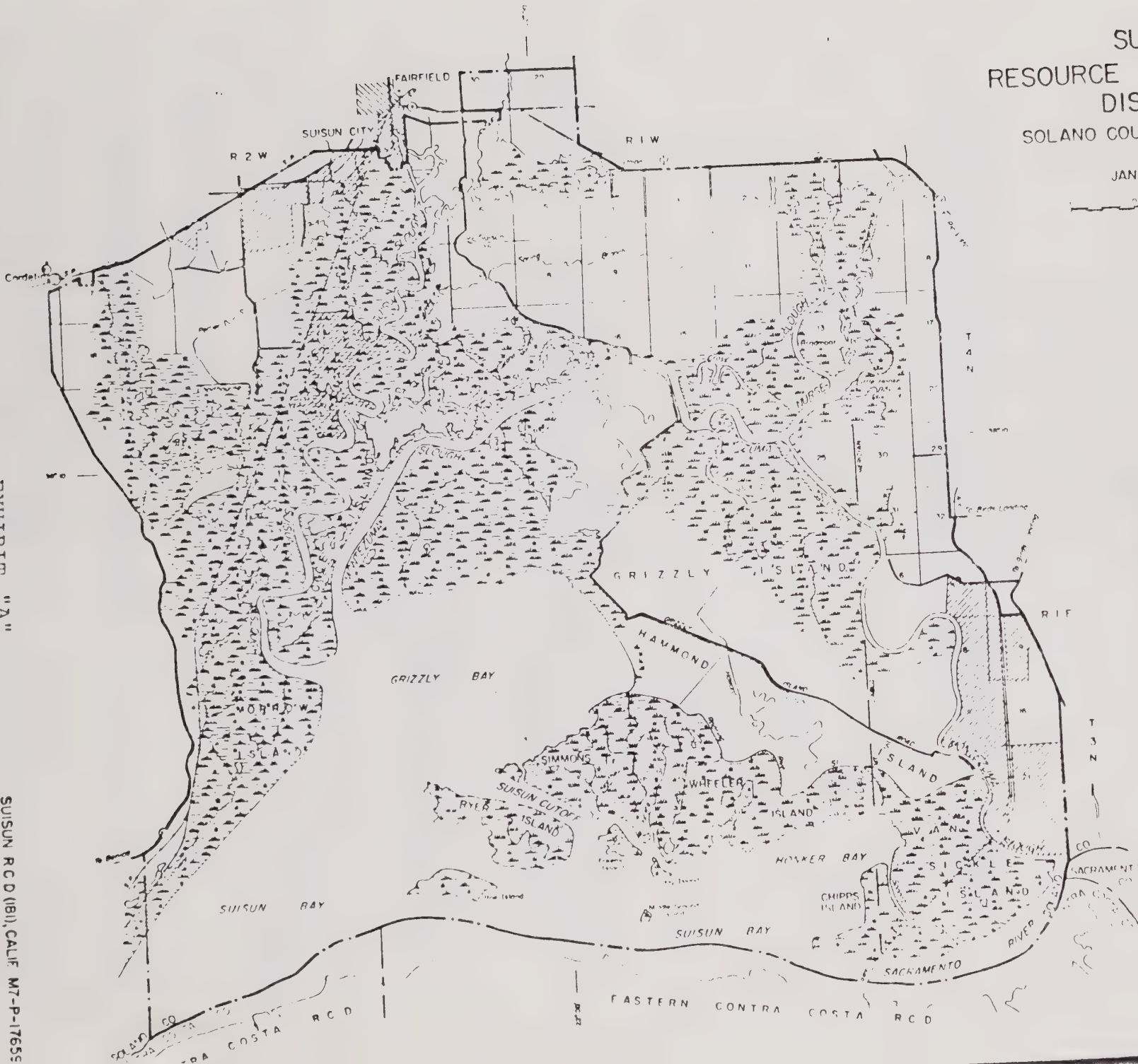
LOCATION MAP

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

EXHIBIT "A"

SUISUN RCD (B), CALIF. M7-P-17655







SUISUN RESOURCE CONSERVATION DISTRICT

2200 SAND HILL ROAD  
MENLO PARK, CA 94025  
415/854-1880

APPLICATION AND AGREEMENT FOR RESOURCE CONSERVATION ASSISTANCE

between

SUISUN RESOURCE CONSERVATION DISTRICT

and

I hereby request assistance from the District for the development of a resource conservation plan and/or the technical assistance needed to apply soil and water conservation practices on the land described as follows:

LOCATION \_\_\_\_\_ MAP NO. \_\_\_\_\_

TOTAL ACRES \_\_\_\_\_ TYPE \_\_\_\_\_

OWNER \_\_\_\_\_ PHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_

OPERATOR \_\_\_\_\_ PHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_

Upon acceptance of this application by the District, the District agrees to provide the Cooperator, on his request, technical assistance needed for planning, development, use and maintenance of the soil and water resources on the land under his control. The Cooperator agrees to use the assistance provided by the District to achieve a sound program for use and management of his soil and water resources.

It is mutually agreed that the District assumes no responsibility for the legal establishment of any property or boundary lines, water rights, or acreages. The Cooperator agrees to hold the District harmless for any personal injury or property damage that might result from carrying out the program.

This agreement shall be effective on the date of the last signature to it. It will remain effective until either party gives notice to the contrary. It will become inoperative for any party ceasing to have a legal interest in the land. This agreement does not constitute an application for assistance under any Federal cost sharing program.

SUISUN RESOURCE CONSERVATION DISTRICT

\_\_\_\_\_  
Signature of District Director

\_\_\_\_\_  
Cooperator

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Group No.

Farm No.



PROVISION AND POLICY GROUPS CHECKLIST

SRCD

"N/A" - Does not apply to local jurisdiction  
 "+" - Marsh Policies and local policies consistent  
 "-" - Possible inconsistency or conflict  
 "O" - Further research needed

1. WILDLIFE HABITAT MANAGEMENT AND PRESERVATION

Provisions

Protection Plan Policies

| Provisions and Policies   | Applicability | Comments  |
|---|---------------|---|
| 29401(d) - S.R.C.D. Management Program                            | 0             | Program must be developed.                        |
| (e) - Zoning designating existing uses                            | N/A           |   |
| (i) - Creekside development standards                             | N/A           |   |
| 29409.5 - IAFCO spheres   | N/A           |   |
| "Environment" 1. - Preservation of diversity of habitats          | 0             | Controls must be included in SRCD Management Plan |
| 2. - Critical habitat protection                                  | 0             | Controls must be included in SRCD Management Plan |
| 3. - Preservation of existing uses in uplands                     | N/A           |   |
| 4. - Retention of Eucalyptus groves                               | N/A           |   |
| "Land Use" 1. - Protection and management of land and water areas | 0             | Controls must be included in SRCD Management Plan |
| 2. - Compatability of agricultural uses                           | 0             | Controls must be included in SRCD Management Plan |
| 3. - Impacts of mosquito abatement on tidal marshes               | N/A           |   |
| 7. - Management of controlled burns                               | N/A           |   |
| 8. - Management of permanent ponding                              | 0             | Controls must be included in SRCD Management Plan |
| 13. - Marsh restoration   | N/A           |   |
| 16. - Expansion of research efforts on management                 | N/A           |   |

EXHIBIT "C"



2. AGRICULTURE

| Provisions and Policies   | Applicability | Comments                                |
|---|---------------|---|
| 29427 (a) - Designation of adjacent agricultural lands          | N/A           |   |
| (b) - Zoning district standards                                 | N/A           |   |
| 29401 (e) - Zoning designating existing uses                    | N/A           |   |
| 29403 (a) - Parcel size standards                               | N/A           |   |
| (b) - Development standards                                     | N/A           |   |
| (c) - Agricultural use standards                                | N/A           |   |
| (d) - Special assessment limitations                            | N/A           |   |
| 29404 - Preclusion of specific crop requirement                 | N/A           |   |
| 29409.5 - LAFCO spheres   | N/A           |   |
| "Resource Management" 2. Compatible agricultural uses in P.M.A. | 0             | Must be defined in SRCD Management Plan |
| 10. Compatible agricultural uses in S.M.A.                      | N/A           |   |

### 3. WATER QUALITY

| Preservation Act         | Provisions and Policies   | Applicability | Comments                        |
|--------------------------|---|---------------|---------------------------------|
|                          | 29401 (c) - Septic tank and waste water standards                 | N/A           |                                 |
|                          | (h) - Grading standards   | N/A           |                                 |
|                          | (i) - Creekside development standards                             | N/A           |                                 |
|                          | 29402 - Ordinances for watershed                                  | N/A           |                                 |
| Protection Plan Policies | "Water Supply" 5. - Impact evaluation of import projects          | 0             | Include in SRCD Management Plan |
|                          | 6. - Groundwater withdrawal                                       | N/A           |                                 |
|                          | 7. - Surface runoff control                                       | N/A           |                                 |
|                          | 8. - Wastewater discharges  | N/A           |                                 |
|                          | 10. - Upstream industrial development                             | N/A           |                                 |
|                          | "Utilities" 5. - Septic tank phaseout for wetlands                | N/A           |                                 |
|                          | "Resource Management" 14. - Runoff and erosion control ordinances | N/A           |                                 |
|                          | 15. - Creekside protection  | N/A           |                                 |

| NATURAL GAS<br>Provisions and Policies  | Applicability                          | Comments |
|---|--|----------|
| "Natural Gas" 1. - Underground pipeline construction standards<br>2. - Gas well drilling safeguards<br>3. - Construction only in dry months<br>4. - Gas well abandonment<br>5. - Natural gas storage<br>6. - LNG facilities impacts | N/A<br>N/A<br>N/A<br>N/A<br>N/A<br>N/A |          |

|   |        |  |
|---|--------|--|
| 5. DREDGING, FILLING AND DIKING<br><br>29401 (b) - Enforceable standards<br>(d) - SRCD management program | 0<br>0 | Include in SRCD Management Plan<br>Include in SRCD Management Plan |
|---|--------|--|



| WATER MANAGEMENT                          |               |                                       |
|---|---------------|---------------------------------------|
| Provisions and Policies                   | Applicability | Comments                              |
| 962 (a) - S.R.C.D. Management regulations | 0             | Include in SRCD Marsh Management Plan |
| 401 (d) - S.R.C.D. Management Program     | 0             | Include in SRCD Marsh Management Plan |
| 412.5 - S.R.C.D. Management Program       | 0             | Include in SRCD Marsh Management Plan |
| Land Use" 4. - Water management schedule  | 0             | Include in SRCD Marsh Management Plan |

| VISUAL CHARACTERISTICS  |     |  |
|---|-----|--|
| 9401 (g) - Standards for protection of visual characteristics | N/A |  |

| WATER RELATED INDUSTRY                          |     |  |
|---|-----|--|
| "Industry" 4. - Collinsville deep-water reserve | N/A |  |
| 5. - Collinsville buffer zone                   | N/A |  |
| 6. - Collinsville special purpose district      | N/A |  |
| 7. - Benicia site                               | N/A |  |
| 8. - Water related planning guidelines          | N/A |  |





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Preservation Act

Protection Plan

| 6. UTILITIES, FACILITIES AND TRANSPORT<br>Provisions and Policies   |  | Applicability | Comments |
|---|--|---------------|----------|
| 29409 - Potrero Hills disposal site   |  | N/A           |          |
| "Utilities 1. Public utility facilities guidelines<br>2. Fairfield treatment plant hookup<br>3. Standards for underground utilities lines<br>6. Pacific Reclamation and Disposal Inc.<br>7. Solano Garbage Co.<br>8. Material Disposal Co. incapatability |  | N/A           |          |
|   |  | N/A           |          |
|   |  | N/A           |          |
|   |  | N/A           |          |
|   |  | N/A           |          |

Preservation Act

ion Plan

| 7. RECREATION AND MARSH ACCESS<br>Provisions and Policies  |  | Applicability | Comments                              |
|--|--|---------------|---------------------------------------|
| 29009 (a) - Public acquisition for recreation<br>(b) - Acquisition for marsh restoration<br>(c) - Acquisition for wildlife habitat<br>29011 Public access priority   |  | N/A           |                                       |
|  |  | N/A           |                                       |
|  |  | N/A           |                                       |
|  |  | 0             | Include in SRCD Marsh Management Plan |
| "Recreation" 1. Acquisition for public duck hunting<br>3. Acquisition for water access<br>4. Provide for balance of needs<br>5. Maintenance of public lands<br>6. Incompatible recreational uses<br>"Public Access" (b) Public access to industrial waterfront |  | N/A           |                                       |
|  |  | N/A           |                                       |
|  |  | N/A           |                                       |
|  |  | N/A           |                                       |
|  |  | 0             | Include in SRCD Marsh Management Plan |